



10 October 1955

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?. The status of the projects at the present time is as follows:

# APPLIED PAYSICS DIVISION

Subject: Mesury Drilling. Proposel was all-inclusive and not specific.

Status: So report on new proposal. Semarks: Original proposal too general.

### Betional Buroou of Standards

Subjects Well-thickness Measurement Sauge. Peasibility of Ultrasoxic measurement and type of equipment which might be used.

Status: Proposal accepted and work now in progress. Final results expected in 3-4 months.

Memorie: Thiskness gauge - unable to find any correlation between well thiskness and resusance. They are investigating pulse-gauging, and will try low-frequencies between 10 and 15 arcles. All has been asked to collaborate with

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utilizing back-ecutoring of mentrons.

CHEMICAL DIVISION

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Bublects Wall-thickness measurement.

Status: Feasibility study and calculations now undersay.

Romarks: Will collaborate with provide electronic equipment.

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### CHEMICAL DIVISION (Cont'd)

Subject: Chemical decomposition of concrete and morter. Status: Awaiting security approval

Remarks: This company does equipment research work or coment and concrete chamistry.

Subject: Chemical decomposition of concrete and morter.

Status: Awaiting accurity approval.

Somerke: These companies do contract resourch Work on cement and concrete chemistry.

#### ENJIMENTING DIVISION

Subject: Digging and drilling program.

Statusi is continuing research on drilling rates with different 25X1

drill bits and types of stone.

Ammarka: A hand-held unit has been designed and tested. In concrete, five minutes were required to drill 30 inches with a 5/16 drill. The rotary drill was tried on granite (a homogring action is recommended) and I was the maximum depth obtainable before dulling coursed drill to stop cutting.

Subject: Pipe Pusher Frouren.

Status: The proposal has been accepted and the contract is being written. Aguarte: This project should not be confused with the small trench disperused for laying wires in the ground. The pipe pusher will be used for laying wires under sidewalks etc. up to 30 inches in width.

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Subjects Proposal covers a general study of the present state of the ert and newsideration of new methods of wall paretration. Suggests work ons (a) Supersonic Brillians (b) Net of abrasive particle in liquid air; (c) Aubbor bit impresented with dismonds - 19754 - 6 months.

Status: Proposal has been assested and the contract is being regotisted by Logistics.

Asserts: They will work on two approaches to milent drilling. (1) Attempt to produce drilling bits which are designed primarily for quiet operation rather then the neuel economic considerations. (2) Investigate the drilling possibilitims of high velocity abresive particles.

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## ENTINEERING DIVISION (Gont'd)

Subject: Proposal covers a first phase for: (a) Murvey of commercial equipment; (b) Tests of borrowed commercial equipment to determine what could be used and what should be developed for our purposes; (a) Reports of results and recommendations - \$4500 - 4 months.

Status: Proposal has been accepted and contract is being negotiated.

Remarks: The primary emphases will be placed on developing a bicycletype power source with the chances being good that a crude prototype may
be built.

Subject: The proposal cover the construction of a testing facility to consist of a building (10' x 20') with heat and power. Test walls would be constructed inside the building in order to simulate drilling in a room. Sound level measuring equipment and 20 weeks of testing are included - \$17,000 - 1 year.

Status: A second proposal has been requested and should arrive shortly.

Descript A test facility will be set up to include a number of different types of walls to compare panetration methods and thickness gauges. Samples have been obtained for use as guides in construction of walls.

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Subject: Silent alternating ourrent drives and manual drives.

Status: This proposal is still held up by lack of personnel elearances.

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Subjects General proposal.

Status: Their proposal has been received.

pretty well rounded, we will not ask to work on it right now. They will 25X1 be contacted again if new approaches develop.

did again if new approaches develop.

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Subject: Explosive projectile such as used by compenters to mail lumber to concrete.

Status: did not submit a proposal because they did not believe that the stud driver principle was feasible for deep hole penetration.

Amenical They have been contacted again and asked to reconsider the problem and let us know what would be the meximum possible depth.

### TROUBLEAL SERVICES LAB.

Subject: Softening of concrete.

Status: Pencibility tests and studies.

Jenaria: TSL will test theory that concrete can be softened by subjecting it to sudden extremes of temperature.

Status: Flaster Drill

Status: Work in progress. Tests should be conducted soon.

Beneric: Til is investigating the best speeds and techniques for a high speed drill to penetrate plaster without chipping.

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Distribution:

1 - AC/PSS/HAD

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